

1996 Indiana Solid Waste Facility Annual Report



**Indiana Department of Environmental Management
Office of Solid and Hazardous Waste Management
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Indianapolis, IN 46206-6015**

The ***1996 Indiana Solid Waste Facility Annual Report*** is the fifth in the series of annual reports of solid waste facility activities in Indiana. The information is compiled from solid waste facility quarterly reports submitted to the Indiana Department of Environmental Management (IDEM). The IDEM Office of Solid and Hazardous Waste Management publishes the ***1996 Indiana Solid Waste Facility Annual Report*** to provide information to the public about solid waste processing and disposal activities in Indiana. The report was prepared by staff of the Solid Waste Data Analysis and Planning Section.

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INTRODUCTION

This report is the sixth annual summary of Indiana's solid waste facility data. It is intended to provide information for persons interested in Indiana's solid waste management. The report provides solid waste facility information for 1996 and contains:

- a summary of existing solid waste facilities;
- a summary of the amount, origin, and types of solid waste received at land disposal facilities and processing facilities; and
- a summary of out-of-state waste imports.

This report was compiled from the solid waste facility quarterly reports submitted to IDEM by owners and operators of facilities which manage non-hazardous solid waste. Legislation requires all solid waste land disposal facilities (329 IAC 10-14-1) and processing facilities (329 IAC 11-14-1) to submit information to IDEM on a quarterly basis describing the origin, type, and amount of solid waste received by these facilities. Processing facilities must also report the amount and destination of processed waste or residues that are transported off-site for disposal. Reports submitted to IDEM are on file and available for public review in the Office of Solid and Hazardous Waste Management.

Changes to Note in This Year's Report

Several sections that were included in previous releases of this report are not present in this year's report. Much of the information in these sections was duplicated from year to year and/or is available in other IDEM publications. Table 1 shows how to obtain this information in addition to other information that may interest readers of this report.

General information on solid waste data and facilities has been condensed and streamlined for this year's report. Emphasis is placed on graphs, tables, and figures; discussion text is included only as necessary to guide the reader through the report and to provide a context for the graphs and tables. Furthermore, information that has traditionally been located in the appendices of previous reports has either been removed, incorporated into various sections of this report, or consolidated into a new facility profile section located at the end of this report.

Previous reports summarized municipal solid waste (MSW) landfill capacity from amounts reported by facilities or from estimates made by IDEM. Beginning in 1996, landfills are required by legislation to submit contour maps annually based on surveys conducted between October 1 and December 31 of each year. IDEM uses this information to calculate accurate and precise totals for both airspace and waste capacity. 1996 capacity data for MSW landfills is expected to be available in a separate IDEM report by Fall 1997.

In 1996, IDEM began utilizing revised report forms to provide more detailed nonmunicipal waste information. Changes included the addition of waste categories for foundry wastes, coal ash, and flue gas desulfurization by-products. Prior to 1996, this report summarized nonmunicipal waste only as construction-demolition waste and special/other waste. Because of this, certain nonmunicipal waste types reported in 1996 could not be compared with previous years since those types were not individually reported. Therefore, annual comparisons of disposal by waste type is grouped by municipal waste and nonmunicipal waste in this report. However, information concerning solid waste disposal in 1996 includes all reported waste types.

Table 1. Sources of Solid Waste Data

Information Available	Description	Contact
Land disposal facility quarterly reports	Origin, type, and tonnage of solid waste received	Jerry Giger (317) 233-5748
Processing facility quarterly reports	Origin, type, and tonnage of solid waste received and destination information	Jerry Giger (317) 233-5748
Special waste quarterly reports	Type and generator of certified and generic special waste received at Indiana land disposal facilities	Marcia Earl (317) 233-2823
Composting facility annual reports	Type and volume of compost received and processed	Jackie Holland (317) 233-3346
Transfer station inspection annual reports	Results from inspections of incoming waste for special, infectious, and hazardous waste	Kristi Dixon (317) 233-5161
Waste tire storage facility annual reports	On-site summary of incoming and outgoing tires	Steve Poe (317) 232-7205
Municipal solid waste manifests	Waste generation, transportation, and disposal information that accompanies waste from processing facilities for final disposal	Dan Chesterson (317) 233-5751
Indiana MSW landfill disposal capacity	Remaining air space and disposal space at Indiana land disposal facilities	Richard Worth (317) 233-5156
Solid waste management fee reports	Monthly report showing fees collected for solid waste disposed at final disposal facilities	Pat Williams (317) 232-1859
Solid waste disposal fee reports	Semi-annual report showing fees collected for the disposal of specific types of solid waste	Pat Beeler (317) 233-0408
Solid waste management district annual reports	Information on district programs and activities	Dan Chesterson (317) 233-5751
Indiana solid waste diversion goals	Indiana's progress toward meeting its 35%/50% solid waste diversion goals	Jerry Giger (317) 233-5748
Permitted solid waste facilities list	List of permitted solid waste facilities in Indiana	Debbie Baker (317) 232-0066

SOLID WASTE DATA FRAMEWORK

Several factors must be considered when discussing solid waste disposal in Indiana:

- type and quantity of the waste disposed;
- type and ownership of the facility which received the waste; and
- origin of the waste received.

The following pages give an overview of key concepts necessary for understanding solid waste disposal data.

Solid Waste Types

Solid waste can be broadly categorized as **municipal solid waste** or as **nonmunicipal solid waste**. Nonmunicipal solid waste has been historically subdivided into categories such as construction-demolition debris, special waste, and other nonmunicipal waste. In 1996, several categories of nonmunicipal waste were added to provide more detailed waste information. Figure 1 shows the solid waste categories used during 1996. A more detailed explanation of these types is provided in Table 2.

Solid Waste Facility Types

Solid waste facilities in Indiana fall into two broad permit categories: land disposal facilities and processing facilities. Each category can be further subdivided. Land disposal facilities are subdivided into four types: municipal solid waste (MSW) landfills, construction-demolition landfills, restricted waste landfills, and nonmunicipal solid waste landfills. Processing facilities can be incinerators, transfer stations, and other processing facilities. Table 3 summarizes the number of permitted solid waste facilities that submitted data reports to IDEM during 1996.

Figure 1. Solid Waste Categories during 1996

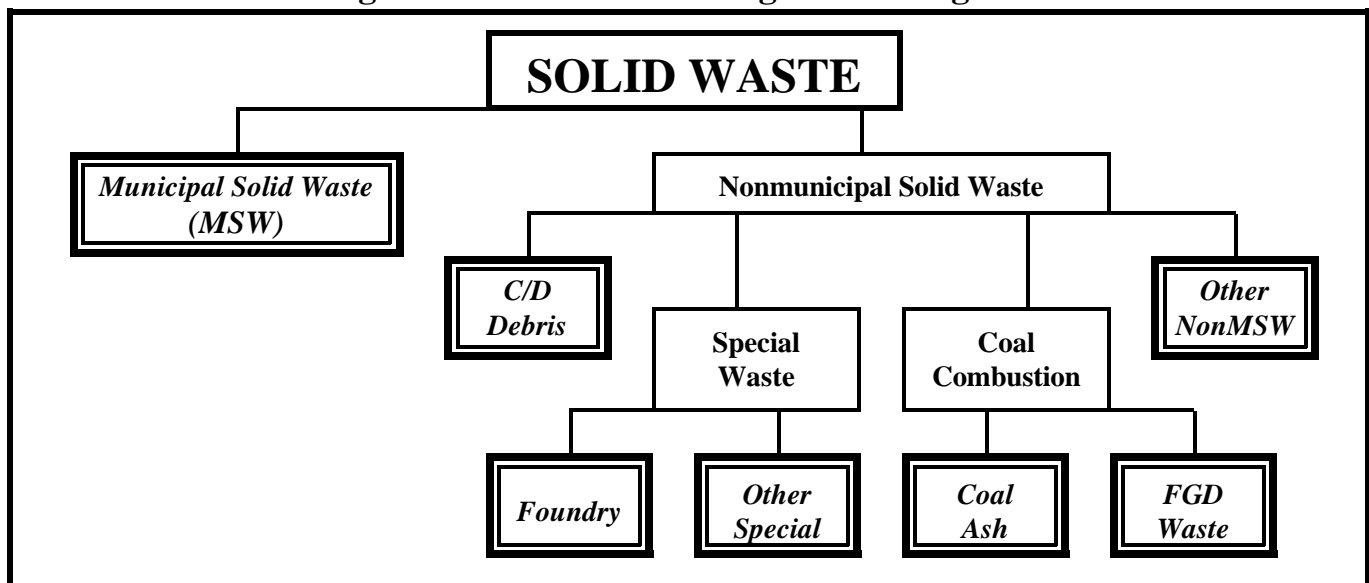


Table 2. Solid Waste Classification Guide during 1996

WASTE TYPE		GENERAL CATEGORIES	EXAMPLES	
M U N I C I P A L	Municipal Solid Waste (MSW)	<ul style="list-style-type: none"> • Residential <ul style="list-style-type: none"> - Single- and multi-family units - Other (campgrounds, parks, etc.) • Commercial <ul style="list-style-type: none"> - Retail and wholesale - Service industry • Institutional <ul style="list-style-type: none"> - Prisons, hospitals, schools, and universities - Government sector • Industrial non-process / municipal <ul style="list-style-type: none"> - Offices, lunchrooms, restrooms - Shipping / Receiving activities 	<ul style="list-style-type: none"> - Consumer goods - Packaging wastes - Food wastes - Office wastes - Yard trimmings / vegetation - White goods (appliances) - Automobile parts - Waste tires - Small animal carcasses - Medical wastes - Household hazardous waste (includes oil, batteries, etc.) - Treated Infectious wastes 	<ul style="list-style-type: none"> - Used pallets - Cardboard - Furniture - Exempt special wastes (generated by a single generator in quantities less than 100 kilograms per month and disposed of in quantities less than 100 kilograms per shipment) - CESQG wastes
	C/D	<ul style="list-style-type: none"> • Construction / Demolition <ul style="list-style-type: none"> - Construction industry - Demolition companies 	Uncontaminated solid waste resulting from the construction, remodeling, repair or demolition of structures. For example: - Scrap lumber, wallboard	<ul style="list-style-type: none"> - Roofing materials - Plumbing and electrical fixtures - bricks, concrete, glass - Non-asbestos insulation
	Foundry	<ul style="list-style-type: none"> • Foundry Waste 	- Waste sand, slag, sludge, core waste, dust fines, etc.	
	Special Other	<ul style="list-style-type: none"> • Special (excluding foundry wastes) <ul style="list-style-type: none"> - Industrial process - Pollution control - Sludges - Waste requiring special waste certification 	<ul style="list-style-type: none"> - Spill cleanup wastes (petroleum cont. Soil, etc.) - Manufacturing process wastes (resins, oxides, etc.) - Water / wastewater sludges - Asbestos-containing wastes 	<ul style="list-style-type: none"> - Incinerator residues - Industrial sludges - Low-level PCB wastes - Wastes mixed with special wastes
	Coal Ash	<ul style="list-style-type: none"> • Coal Ash 	<ul style="list-style-type: none"> - Coal ash - Fly ash, bottom ash, etc. 	- Ash resulting from the combustion of coal
	FGD Waste	<ul style="list-style-type: none"> • Flue gas desulfurization byproducts 	<ul style="list-style-type: none"> - Scrubber / FGD sludge - Pollution control sludges resulting from coal combustion 	
N O N M U N I C I P A L	Other NonMSW	<ul style="list-style-type: none"> • Any other nonmunicipal solid waste not regulated as C/D or special or resulting from coal combustion 	<ul style="list-style-type: none"> - Oil / gas/ mining wastes - Pesticide containers - Railroad ties 	

CESQG = conditionally exempt small quantity generator

PCB = polychlorinated biphenyl

FGD = flue gas desulfurization

Land Disposal Facilities

Municipal solid waste (MSW) landfills can accept a wide range of solid wastes disposed from residential, commercial, institutional, and industrial sources. Of the four landfill types, only MSW landfills can accept municipal solid wastes (Table 4). **Construction-demolition landfills** accept construction or demolition waste materials. **Restricted waste landfills** can accept only special wastes and materials specified in the landfill permit as suitable for disposal at the site. Coal combustion by-products comprise the largest portion of the waste tonnage disposed at restricted waste landfills. **Nonmunicipal solid waste (NonMSW) landfills** have

similar design standards as municipal solid waste landfills, but cannot dispose of municipal waste from residential or commercial sectors. All of Indiana's NonMSW facilities are currently captive facilities and therefore, are not available for public use.

Table 3. Number of Solid Waste Facilities Which Operated during 1996

A. Land Disposal Facilities

Municipal Solid Waste Landfills	47
• <i>Privately Owned</i>	29
• <i>Publicly Owned</i>	18
Construction-Demolition Landfills⁽¹⁾	11
Restricted Waste Landfills⁽²⁾	20
Nonmunicipal Solid Waste Landfills⁽²⁾	4
TOTAL	82

(1) Some facilities are captive sites.

(2) All facilities are captive sites.

(3) Incinerators designed to accept at least 10 tons per day.

B. Processing Facilities

Solid Waste Incinerators⁽³⁾	4
• <i>Municipal</i>	1
• <i>Industrial⁽²⁾</i>	1
• <i>Hospital</i>	2
Transfer Stations	53
• <i>Privately Owned</i>	39
• <i>Publicly Owned</i>	14
Paper Processing/Recycling	2
TOTAL	59

Table 4. Types of Landfills and Incinerators

A. Landfills

Type	Acceptable Wastes	Data reported to IDEM
Municipal Solid Waste Landfill	Municipal waste, construction-demolition debris, special wastes, industrial wastes, other non-municipal wastes	Yes
Construction-Demolition Landfill	Construction-demolition debris (unless otherwise approved by IDEM)	Yes
Restricted Waste Landfill	Non-municipal waste(s) specified in permit	Yes
Nonmunicipal Solid Waste Landfill	Wastes other than residential and commercial wastes	Yes

B. Incinerators

Type	Acceptable Wastes	Data reported to IDEM
Large solid waste	Municipal waste, construction-demolition debris, special wastes, industrial wastes, other non-municipal wastes	Yes
Small solid waste ⁽¹⁾	Municipal waste, construction-demolition debris, special wastes, industrial wastes, other non-municipal wastes	No
Large infectious waste	Infectious waste (may also accept certain non-infectious waste)	Yes
Small infectious waste ⁽²⁾	Infectious waste (may also accept certain non-infectious waste)	No

(1) Incinerators designed to accept less than 10 tons per day do not require a permit, but must comply with certain operating requirements.

(2) Incinerators designed to accept less than 7 tons per day do not require a permit, but must comply with certain operating requirements.

IDEM conservatively estimates that municipal solid waste tonnages may be over-reported by 20 to 40 percent

due to some loads of municipal solid waste being mixed with nonmunicipal solid waste, yet identified only as municipal solid waste. According to studies in other states, construction-demolition wastes alone can constitute as much as one-third of municipal solid waste. The portion of municipal solid waste which is actually special/other waste is unknown. Because of these uncertainties, caution should be used when attempting to draw conclusions regarding exact tonnages of particular waste types.

Processing Facilities

The term *incinerator* is broadly defined as an engineered facility designed for the burning of solid waste under controlled conditions. As Table 4 shows, incinerators in Indiana are categorized and regulated as either **solid waste incinerators** or **infectious waste incinerators**.

Solid waste incinerators with a design capacity of at least 10 tons per day and infectious waste incinerators with a design capacity of at least 7 tons per day must obtain a solid waste permit under Indiana solid waste rule 329 IAC 11-19-2. Other incinerators must notify IDEM and comply with certain operational requirements. Units burning only fossil fuels or natural-growth wood are exempt from regulation and permitting requirements because these materials are not regulated as solid waste.

Although incinerators are permitted and regulated under the category of processing facilities, they are considered to be final disposal facilities for planning and disposal fee purposes, as evident in statutory language. The disposal reduction goal language of P.L. 10-1990 also categorizes incineration as a final disposal method.

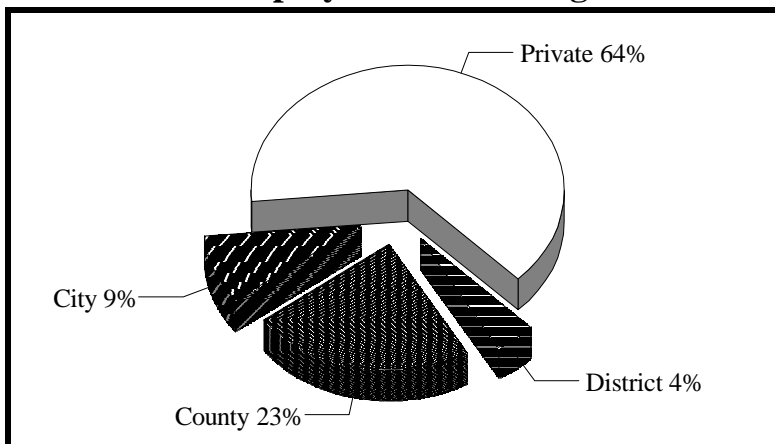
Transfer station activities may involve only the consolidation of waste loads for further transport, or may also incorporate some form of materials recovery, during which recyclables are segregated for recycling or reuse. **Other processing facilities** with permits from IDEM include tire, paper, and medical waste processing facilities. Facilities that function exclusively as recycling collection centers, recycling brokers, or processors that receive presorted recyclables or other segregated materials (except tires) currently are not required to have permits or submit quarterly reports to IDEM.

Facility Ownership

Since the facility quarterly report program began in 1991, more of Indiana MSW landfills have been privately-owned than publicly-owned (Table 3). Figure 2 shows the percentages of private and public ownership of MSW landfills in 1996.

Most construction-demolition and restricted waste sites are privately owned. About three-fourths of Indiana's transfer stations and other permitted processing facilities are privately owned.

Figure 2. Municipal Solid Waste Landfill Ownership by Percent during 1996



Origin of Waste

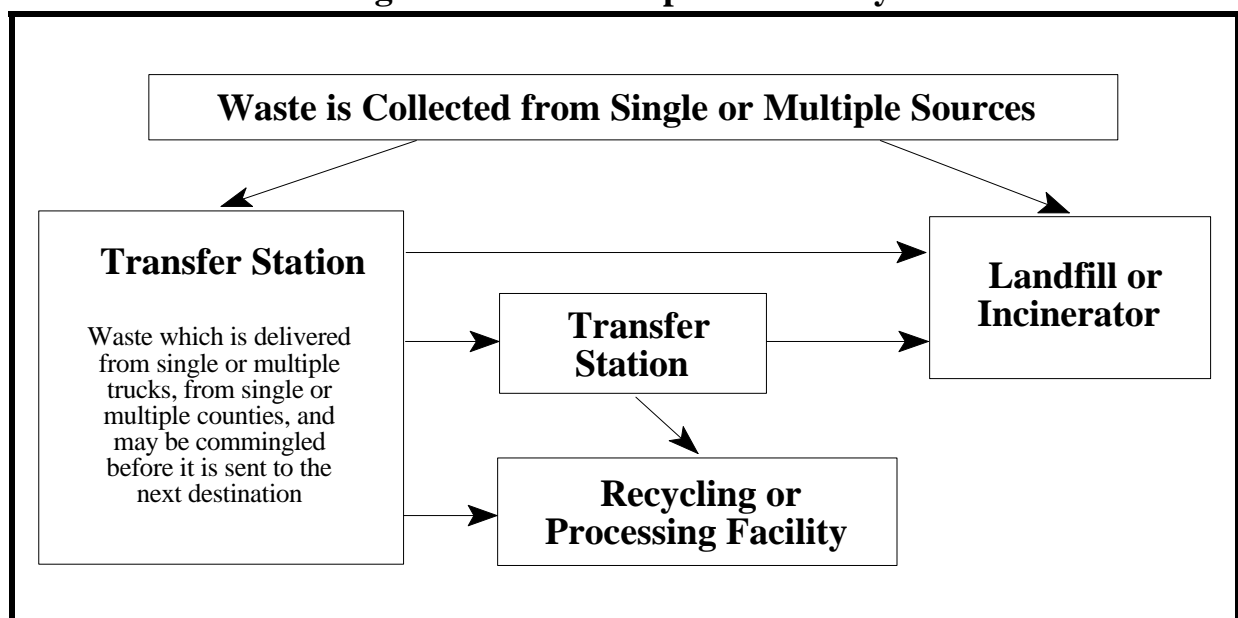
Origin of waste can be broken down by state and by county. A discussion of out-of-state waste is provided beginning on page 23.

Determination of the point of origin of waste by county is difficult due to the manner in which waste is collected and transported to landfills. Waste collection vehicles may transport the waste directly to a landfill and the hauler will report to the landfill operator the county of origin. If the waste collection routes include more than one county as points of origin, the hauler is required to report an estimated percentage of waste for each county to the landfill owner/operator. Furthermore, IDEM guidance instructs land disposal facilities to list the origin of waste received from transfer stations as the county in which the transfer station is located. The extent to which this actually occurs, however, is unknown.

Some waste collection vehicles transport waste to a transfer station, where the hauler is required to report the county (or counties) of origin. The waste received at the transfer station may be commingled with waste from other waste collection vehicles. All or part of the commingled waste may then go to one or more landfills, incinerators, transfer stations, or recycling/processing facilities, where the origin typically is reported as being the county in which the transfer station is located. Figure 3 illustrates the variety of paths that waste can take after it is collected.

In summary, the county identified on some quarterly reports may not be the point of origin, but in fact a transfer point for the waste before it is delivered to the landfill. The quarterly reports are on file and available for public view in the Office of Solid and Hazardous Waste Management.

Figure 3. Waste Disposal Pathways



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SOLID WASTE LAND DISPOSAL FACILITIES

The data in this annual summary reflects the information provided in the solid waste facility quarterly reports as submitted to IDEM. There may be some differences between the numbers published in this summary report and previously published annual reports. The differences primarily are due to improvements in the data quality checks made by IDEM Office of Solid and Hazardous Waste Management.

Table 5 displays the amount of solid waste disposed at Indiana land disposal facilities by each reported waste type during 1996. Figure 4 displays this information by landfill type, and Figure 5 by waste type. Table 6 displays similar information from 1991 through 1996 for municipal and nonmunicipal waste. Table 7 shows waste reported to originate from Indiana only. Waste received at solid waste incinerators is discussed on page 19 in the chapter on processing facilities.

Table 5. Disposal of Solid Waste by Landfill Type and Waste Type during 1996

Waste Type	Tons of Waste Disposed				
	Municipal Solid Waste Landfills	Construction/Demolition Landfills	Restricted Waste Landfills	Nonmunicipal Solid Waste Landfills	All Landfills
Municipal	6,182,558	0	0	3,056	6,185,614
C/D	589,434	212,448	5,200	5	807,087
Foundry	412,695	0	602,650	0	1,015,345
Other Special	1,364,724	0	261,977	12,571	1,639,272
Coal Ash	21,355	0	647,888	0	669,243
FGD Waste	0	0	2,306,572	0	2,306,572
Other NonMSW	115,199	0	0	15,779	130,978
TOTAL	8,685,965	212,448	3,824,287	31,411	12,754,111

Figure 4. Disposal of Solid Waste by Landfill Type during 1996

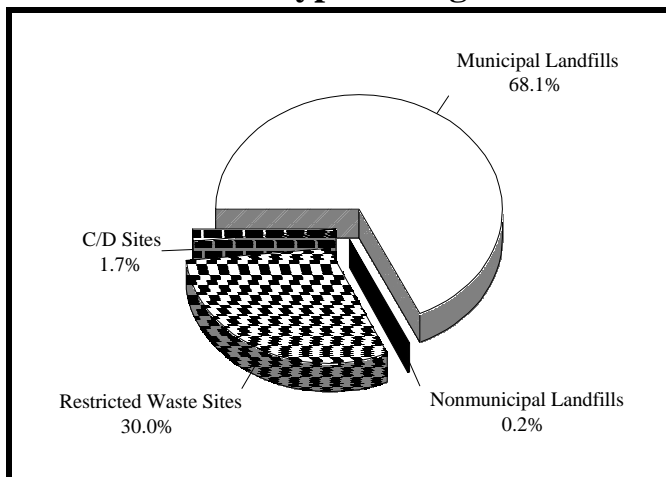
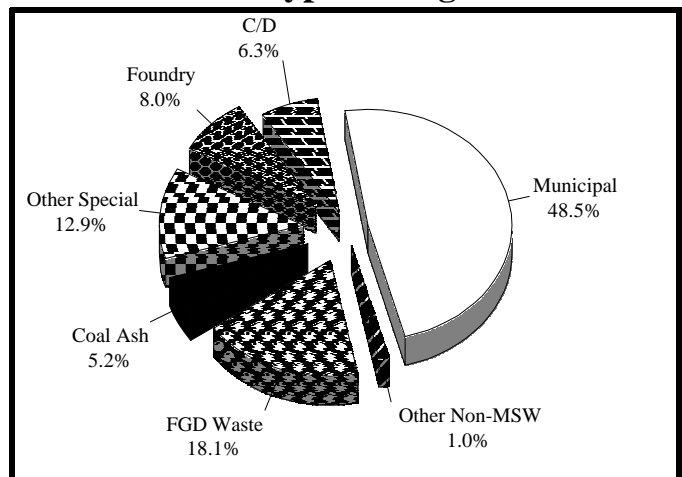


Figure 5. Disposal of Solid Waste by Waste Type during 1996



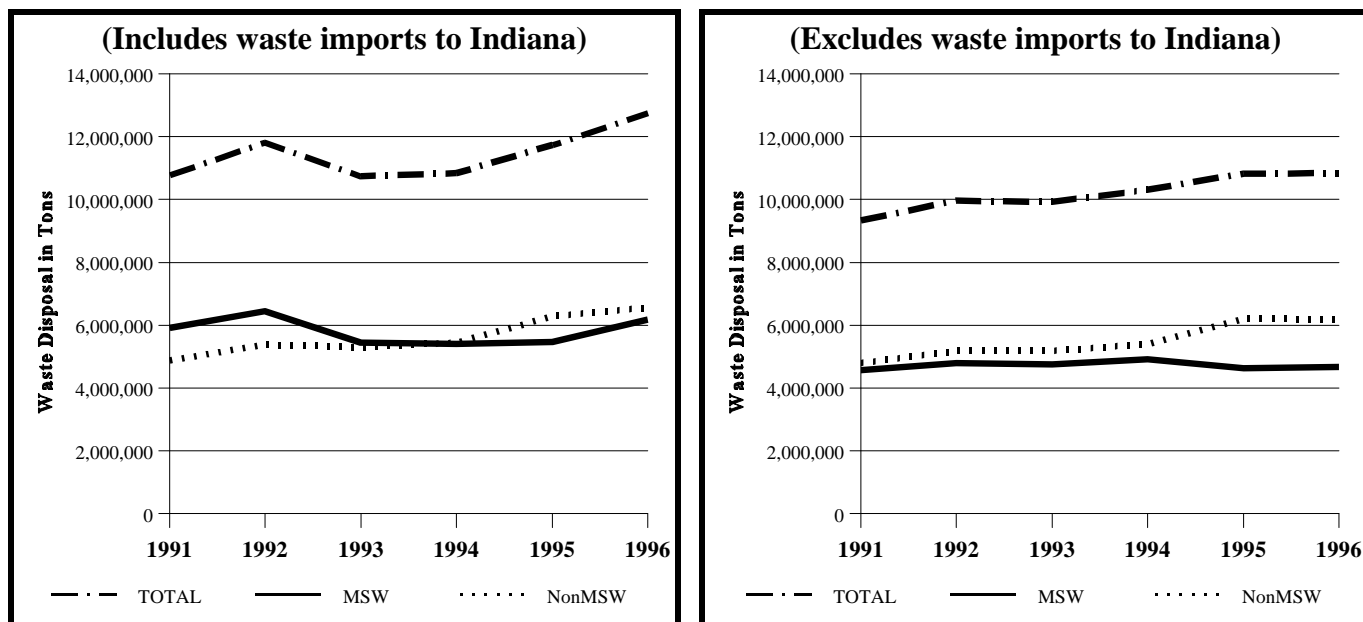
**Table 6. Annual Disposal at Solid Waste Land Disposal
Facilities by Landfill Type and Waste Type**
(Includes waste imports to Indiana)

Landfill Type	Waste Type	Tons of Waste Disposed					
		1991	1992	1993	1994	1995	1996
Municipal Solid Waste Landfills	MSW	5,917,315	6,435,161	5,439,663	5,404,144	5,457,806	6,182,558
	NonMSW	1,479,025	1,919,670	1,966,400	1,820,831	2,277,228	2,503,407
	TOTAL	7,396,340	8,354,831	7,406,063	7,224,975	7,735,034	8,685,965
Construction/Demolition Landfills	MSW	0	0	0	0	0	0
	NonMSW	113,224	120,502	146,491	156,718	144,773	212,448
	TOTAL	113,224	120,502	146,491	156,718	144,773	212,448
Restricted Waste Landfills	MSW	0	0	0	0	0	0
	NonMSW	3,200,387	3,272,803	3,152,091	3,431,672	3,828,695	3,824,287
	TOTAL	3,200,387	3,272,803	3,152,091	3,431,672	3,828,695	3,824,287
Nonmunicipal Solid Waste Landfills	MSW	2,300	2,636	3,289	2,818	3,695	3,056
	NonMSW	80,513	65,314	33,429	34,988	33,359	28,355
	TOTAL	82,813	67,950	36,718	37,806	37,054	31,411
All Landfills	MSW	5,919,615	6,437,797	5,442,952	5,406,962	5,461,501	6,185,614
	NonMSW	4,873,149	5,378,289	5,298,411	5,444,209	6,284,055	6,568,497
	TOTAL	10,792,764	11,816,086	10,741,363	10,851,171	11,745,556	12,754,111

**Table 7. Annual Disposal at Solid Waste Land Disposal
Facilities by Landfill Type and Waste Type**
(Excludes waste imports to Indiana)

Landfill Type	Waste Type	Tons of Waste Disposed					
		1991	1992	1993	1994	1995	1996
Municipal Solid Waste Landfills	MSW	4,555,613	4,786,065	4,746,814	4,903,029	4,616,681	4,661,109
	NonMSW	1,388,449	1,724,787	1,837,649	1,785,798	2,194,894	2,191,770
	TOTAL	5,944,062	6,510,852	6,584,463	6,688,827	6,811,575	6,852,879
Construction/Demolition Landfills	MSW	0	0	0	0	0	0
	NonMSW	113,224	120,502	146,491	153,421	137,998	135,050
	TOTAL	113,224	120,502	146,491	153,421	137,998	135,050
Restricted Waste Landfills	MSW	0	0	0	0	0	0
	NonMSW	3,200,387	3,272,803	3,152,091	3,431,672	3,828,695	3,824,287
	TOTAL	3,200,387	3,272,803	3,152,091	3,431,672	3,828,695	3,824,287
Nonmunicipal Solid Waste Landfills	MSW	2,300	2,636	3,289	2,818	3,695	3,056
	NonMSW	80,513	65,314	33,429	34,988	33,359	28,355
	TOTAL	82,813	67,950	36,718	37,806	37,054	31,411
All Landfills	MSW	4,557,913	4,788,701	4,750,103	4,905,847	4,620,376	4,664,165
	NonMSW	4,782,573	5,183,406	5,169,660	5,405,879	6,194,946	6,179,462
	TOTAL	9,340,486	9,972,107	9,919,763	10,311,726	10,815,322	10,843,627

Figure 6. Annual Disposal at All Solid Waste Land Disposal Facilities



Municipal Solid Waste Landfills

Most questions about land disposal facilities deal primarily with municipal solid waste (MSW) landfills. MSW landfills receive waste materials from residences, businesses, institutions, and industries. As a result of the wide range of waste types these landfills receive, they are built to a more stringent landfill design criteria than, for example, a construction-demolition site which accepts only construction-demolition wastes. Note that figure 9 shows the disposal of out-of-state waste vs. Indiana waste at MSW landfills. A more detailed discussion of out-of-state waste is provided beginning on page 23.

Figure 10 shows the distribution of disposal among MSW landfills. Notice that the majority of MSW landfills accepted less than 100,000 tons of solid waste.

Table 8 summarizes total disposal at individual MSW landfills during 1996. More detailed disposal data for all solid waste disposal facilities is given at the end of this report in "1996 Solid Waste Facility Profiles."

Figure 7. Disposal of Solid Waste at Municipal Solid Waste Landfills by Waste Type during 1996

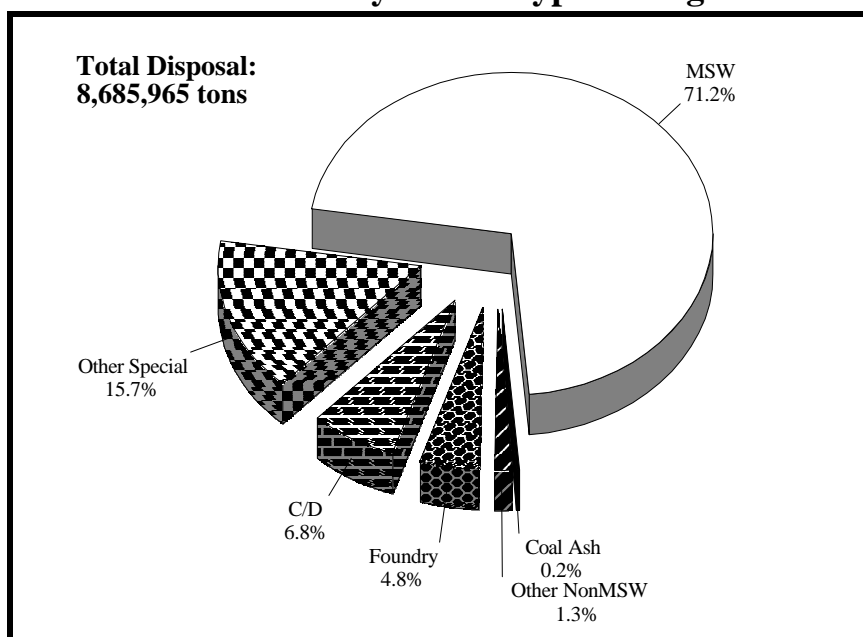


Figure 8. Annual Disposal at Municipal Solid Waste Landfills

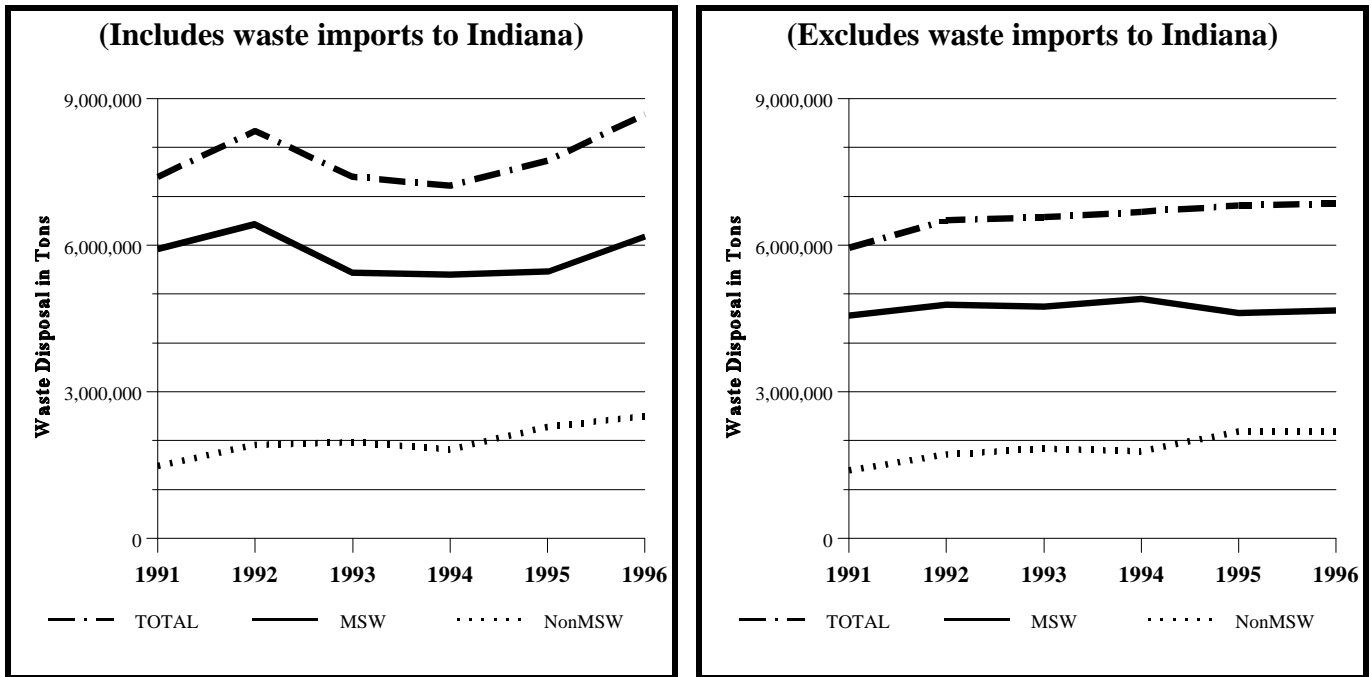


Figure 9. Annual Disposal at Municipal Solid Waste Landfills by Waste Origin

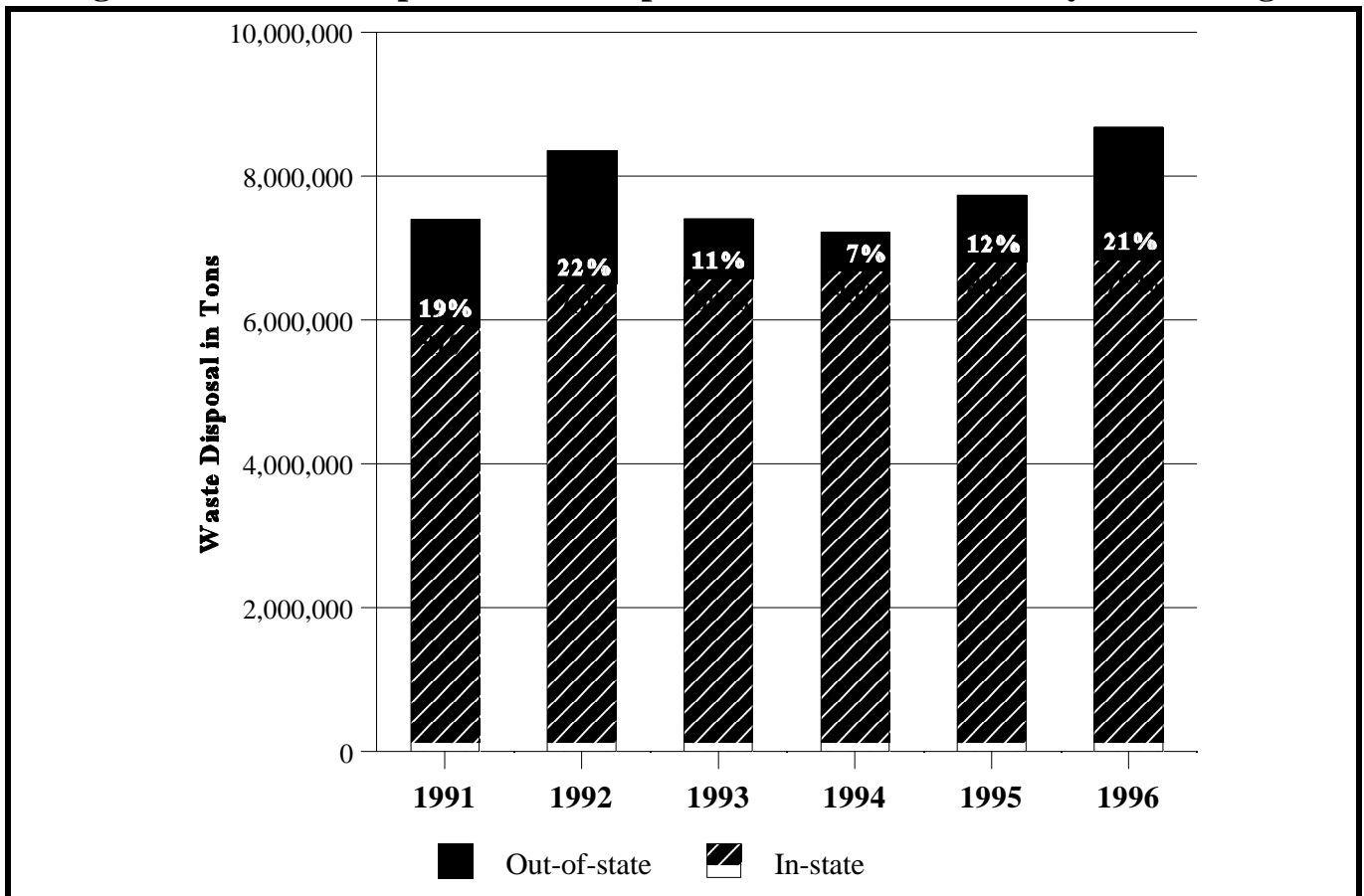


Figure 10. Distribution of Disposal at Municipal Solid Waste Landfills during 1996

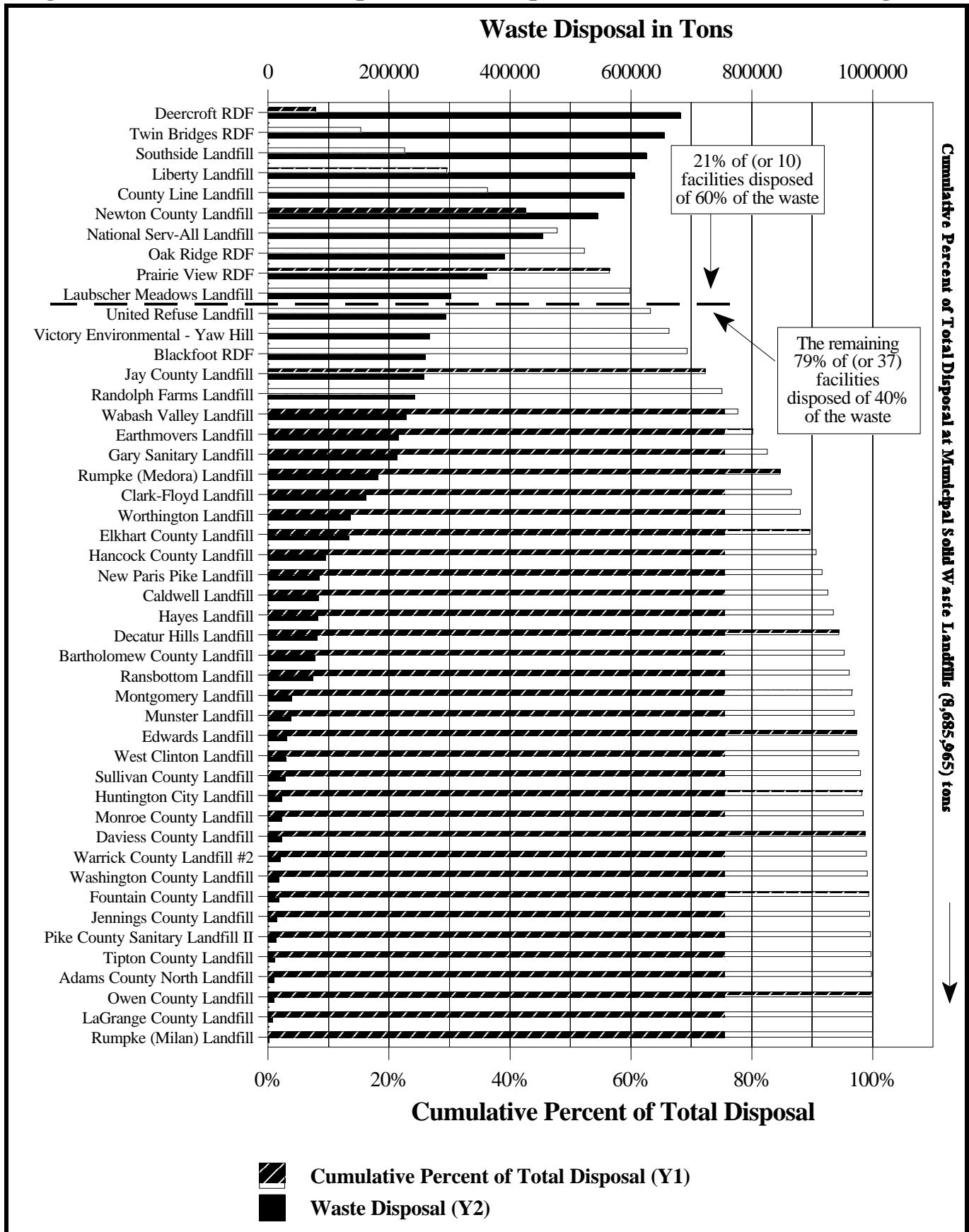


Table 8. Total Disposal at Municipal Solid Waste Landfills during 1996

County Location of Facility	Facility Name	Waste Disposal In Tons	# of Operating Days	Disposal Per Operating Day
Adams	Adams County North Landfill	8,750	284	30
Allen	National Serv-All Landfill	452,775	300	1,509
Allen	United Refuse Landfill	293,393	308	952
Bartholomew	Bartholomew County Landfill	76,127	308	247
Cass	Oak Ridge RDF	389,868	308	1,265
Clark	Clark-Floyd Landfill	160,799	309	520
Clinton	Montgomery Landfill	37,605	310	121
Daviess	Daviess County Landfill	21,492	306	70
Decatur	Decatur Hills Landfill	80,156	312	256
Elkhart	Earthmovers Landfill	214,456	302	710
Elkhart	Elkhart County Landfill	133,072	275	483
Fountain	Fountain County Landfill	16,916	272	62
Fulton	County Line Landfill	587,779	291	2,019
Greene	Worthington Landfill	134,363	311	432
Hancock	Hancock County Landfill	93,690	307	305
Hendricks	Twin Bridges RDF	654,054	325	2,012
Henry	Hayes Landfill	80,959	308	262
Huntington	Huntington City Landfill	21,886	302	72
Jackson	Rumpke (Medora) Landfill	180,104	314	573
Jay	Jay County Landfill	256,855	285	901
Jennings	Jennings County Landfill	13,588	305	44
Knox	Edwards Landfill	29,905	297	100
Kosciusko	Ransbottom Landfill	72,289	308	234
La Porte	Deercroft RDF	680,833	300	2,269
Lagrange	LaGrange County Landfill	5,746	275	20
Lake	Gary Sanitary Landfill	212,673	246	864
Lake	Munster Landfill	36,281	121	299
Marion	Southside Landfill	625,239	311	2,010
Monroe	Monroe County Landfill	21,669	307	70
Newton	Newton County Landfill	543,918	278	1,956
Owen	Owen County Landfill	8,411	289	29
Pike	Blackfoot RDF	258,902	309	837
Pike	Pike County Sanitary Landfill II	11,661	184	63
Randolph	Randolph Farms Landfill	241,426	313	771
Ripley	Rumpke (Milan) Landfill	541	84	6
Shelby	Caldwell Landfill	82,256	307	267
St. Joseph	Prairie View RDF	360,682	307	1,174
Sullivan	Sullivan County Landfill	27,143	257	105
Tipton	Tipton County Landfill	9,453	306	30
Vanderburgh	Laubscher Meadows Landfill	301,932	310	973
Vermillion	West Clinton Landfill	29,175	307	95
Vigo	Victory Environmental - Yaw Hill	265,753	310	857
Wabash	Wabash Valley Landfill	227,302	304	747
Warrick	Warrick County Landfill #2	18,261	301	60
Washington	Washington County Landfill	17,391	304	57
Wayne	New Paris Pike Landfill	83,027	252	329
White	Liberty Landfill	605,409	306	1,978
Total for All Municipal Solid Waste Landfills:		8,685,965		

Other Solid Waste Land Disposal Facilities

Construction-Demolition Landfills

Construction-demolition landfills receive a limited range of wastes, as specified in the facility permit. They represent a relatively small amount of the total waste disposed in Indiana, as shown previously in Figure 4. Traditionally, construction-demolition landfills have not received a significant amount of out-of-state waste. Some waste was imported to Indiana in 1994 and 1995, as shown in Figure 11. In 1996, however, the amount of out-of-state waste received at construction-demolition landfills increased from 5 to 36 percent. Table 9 provides a listing of the construction-demolition landfills and the total amount of waste each facility received in 1996.

Figure 11. Annual Disposal at Construction-Demolition Landfills by Waste Origin

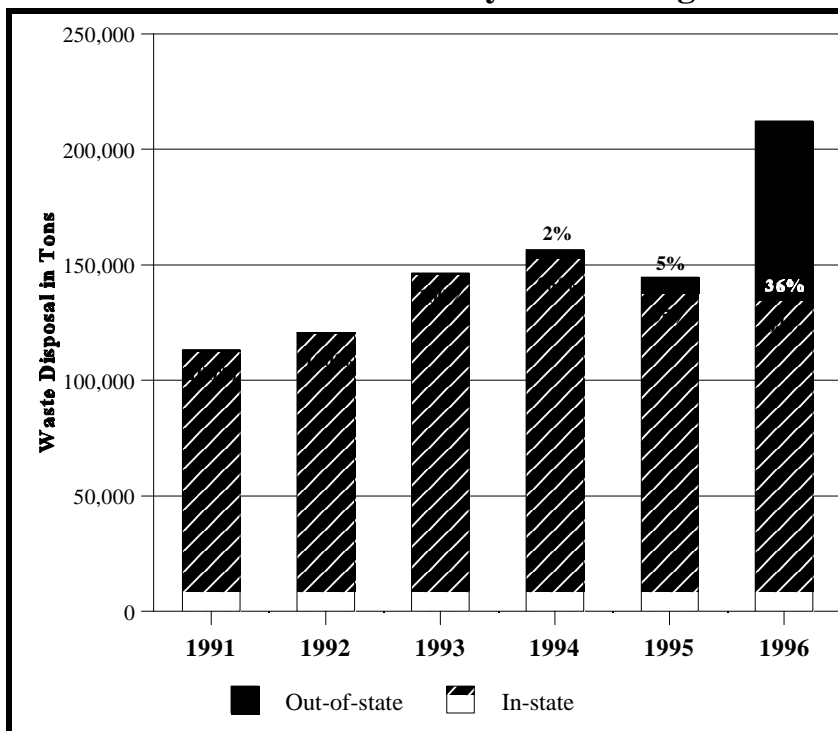


Table 9. Total Disposal at Construction-Demolition Landfills during 1996

County Location of Facility	Facility Name	Waste Disposal In Tons
Allen	M & M Landfill	4,910
Elkhart	County Road 45 Pit C/D Site	34,384
Lake	Feddeler C/D Site	100,918
Madison	Industrial Removal C/D Site	6,167
Marion	Dorsey Paving C/D Site	4,470
Monroe	Anderson Road C/D Site	10,059
Posey	Springfield Environmental C/D Site	22,025
St. Joseph	Donnell Inc. C/D Site	11,647
Vanderburgh	Crowe Wrecking Company C/D Site	2,070
Vermillion	West Clinton II C/D Site	13,476
Wayne	New Paris Pike C/D Site	2,322
Total for All Construction-Demolition Landfills:		212,448

Restricted Waste Landfills

Restricted waste landfills also receive a limited range of wastes, as specified in the facility permit. Most sites are ash, sludge, or foundry monofills. A large number of the landfills are monofills that receive coal combustion wastes from power plants. These coal combustion wastes accounted for 77 percent of the total tonnage disposed at restricted waste landfills in 1996 (Figure 12). Note that prior to 1996, coal combustion

wastes were not individually reported waste types on the solid waste facility quarterly reporting program. Before 1996, the amount of coal-related wastes disposed was based on the amount of waste received at specific types of restricted waste sites related to coal combustion.

The total waste disposed each year in restricted waste landfills is much larger than the amount received at construction-demolition landfills, although not as large as the amount of waste received by municipal solid waste landfills (Figure 4).

No restricted waste landfills have reported receiving out-of-state waste since 1991. Table 10 provides a listing of the restricted waste landfills and the total amount of waste each facility received during 1996.

Figure 12. Annual Disposal at Restricted Waste Landfills by Waste Type

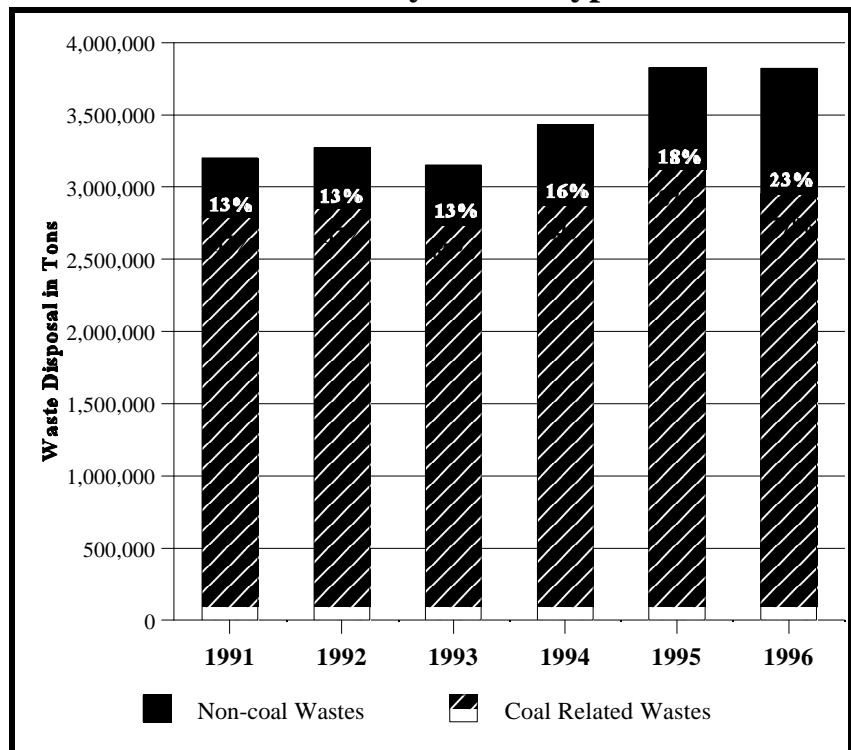


Table 10. Total Disposal at Restricted Waste Landfills during 1996

County Location of Facility	Facility Name	Waste Disposal In Tons
Bartholomew	City Garage Site - SW Mgmt. Authority	68,823
De Kalb	Auburn Foundry RWS III	95,032
Fountain	Harrison Steel Cast RWS	39,478
Gibson	Gibson Station Scrubber RWS	636,340
Hamilton	Noblesville Casting RSW III	3,752
Jasper	Schahfer FGD Sludge RWS II	419,264
Jefferson	Clifty Creek Coal Ash Disposal RWS III	178,174
Knox	Scepter Industries RWS I	449
Kosciusko	Dalton Foundry - RWS II	111,491
Lake	U.S. Steel - Gary Works	246,600
Marion	Belmont Ash RWS Monofill - Permanent	175,202
Marion	Belmont Sludge Ash Disposal Facility	19,651
Pike	Petersburg Generating Station RWS	384,985
Porter	Yard 520 Solid Fill Site	29,697
Posey	McCarty RWS III	25,424
Posey	SIGECO Filter Cake Disposal RWS III	268,351
Spencer	Rockport Plant Ash RWS II	37,495
Sullivan	Merom Station RWS II	987,580
Wabash	Ford Meter Box RWS II	2,699
Wabash	Wabash Alloys RWS I	93,800
Total for All Restricted Waste Landfills:		3,824,287

Nonmunicipal Solid Waste Landfills

1996 rules introduced the terms municipal solid waste landfill and nonmunicipal solid waste landfill, which have been used throughout this report. In previous reports, NonMSW landfills were grouped with MSW landfills under the general heading of “sanitary landfills.” MSW landfills were discussed earlier in this section. There are only a few NonMSW landfills in Indiana and currently all are captive facilities and therefore, are not available for public use. Table 11 provides a listing of the nonmunicipal solid waste landfills and the total amount of waste each facility received during 1996.

Table 11. Total Disposal at Nonmunicipal Solid Waste Landfills during 1996

County Location of Facility	Facility Name	Waste Disposal In Tons
Martin	Crane NSWC Landfill	2,561
Monroe	Dillman Road WWTP Landfill	4,455
Vermillion	Inland Container Industrial Waste Site	13,052
Warrick	ALCOA Sanitary Landfill	11,343
Total for All Nonmunicipal Solid Waste Landfills:		31,411

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SOLID WASTE PROCESSING FACILITIES

Solid waste processing facilities include:

- solid waste incinerators;
- transfer stations; and
- other processing facilities.

Table 12 displays the amount of solid waste received by permitted Indiana incinerators (excluding hospital incinerators) and transfer stations by each reported waste type during 1996. Table 13 displays similar information from 1991 through 1996 for municipal and nonmunicipal waste. More detailed data for all solid waste processing facilities is given at the end of this report in "1996 Solid Waste Facility Profiles." Other processing facilities are discussed later in this section.

Table 12. Amount of Solid Waste Received by Processing Facility Type and Waste Type during 1996

Waste Type	Tons of Waste Disposed	
	Incinerators (non-hospital)	Transfer Stations
Municipal	687,870	1,434,712
C/D	0	276,839
Foundry	0	0
Other Special	22,782	5,017
Coal Ash	0	0
FGD Waste	0	0
Other NonMSW	0	9,327
TOTAL	710,652	1,725,895

Table 13. Annual Amount of Solid Waste Received by Processing Facility Type and Waste Type
(Includes waste imports to Indiana)

Landfill Type	Waste Type	Tons of Waste Received					
		1991	1992	1993	1994	1995	1996
Incinerators (non-hospital)	MSW	672,616	691,546	731,929	687,198	667,667	687,870
	NonMSW	23,672	34,858	33,736	21,198	22,316	22,782
	TOTAL	696,288	726,404	765,665	708,396	689,983	710,652
Transfer Stations	MSW	774,589	873,466	981,681	1,210,393	1,409,747	1,434,712
	NonMSW	139,886	188,653	232,438	206,450	184,807	291,183
	TOTAL	914,475	1,062,119	1,214,119	1,416,843	1,594,554	1,725,895

Solid Waste Incinerators

For reporting and permitting purposes, solid waste incinerators are regarded as processing facilities. For solid waste planning and fee purposes, incinerators are considered as final disposal facilities. Table 14 provides a list of the permitted solid waste incinerators which operated in 1996 and the total amount of solid waste received by these facilities. The list does not include hospital incinerators which receive only a fraction of a percent of the waste received by Indiana's permitted incinerators. More than 200 small-capacity incinerators currently operating in Indiana do not require a permit and do not report to IDEM, but must comply with certain operating requirements.

Table 14. Total Waste Received at Incinerators during 1996

(does not include hospital incinerators)

County Location of Facility	Facility Name	Waste Received In Tons
Marion	Indianapolis Resource Recovery Facility	689,625
Posey	General Electric Ultem Thermal Oxidizer System	21,027
Total for All Incinerators:		710,652

As Table 14 shows, the Indianapolis Resource Recovery Facility received the greatest amount of waste of any permitted incinerator. The tonnage received annually at this facility is roughly equivalent to 5 percent of the total tonnage of waste either disposed or incinerated in Indiana. From the waste received by the Indianapolis Resource Recovery Facility during 1996, 175,202 tons of ash were produced and delivered to the Belmont Ash Monofill for disposal.

Transfer Stations

Transfer stations are facilities that allow waste from individual collection vehicles to be offloaded and then reloaded into larger vehicles for transport to final disposal facilities. Some transfer stations recover recyclable materials to be sent to processing or recycling facilities.

Under current reporting procedures, it is difficult to determine whether differences in incoming and outgoing tonnages at some facilities are the result of materials recovery or the result of differences in volume-to-tons conversions. As discussed on page 7, it is also difficult to track the true origination of waste. Waste collection vehicles may transport the waste directly to a landfill or they may take waste to a transfer station. A landfill receiving waste from a transfer station is instructed to document the waste as originating from the county in which the transfer station is located, regardless of whether any of the waste was generated in that county. The issue is further complicated when the transfer station receives waste from two or more counties, mixes the

Figure 13. Transfer Station Waste Management

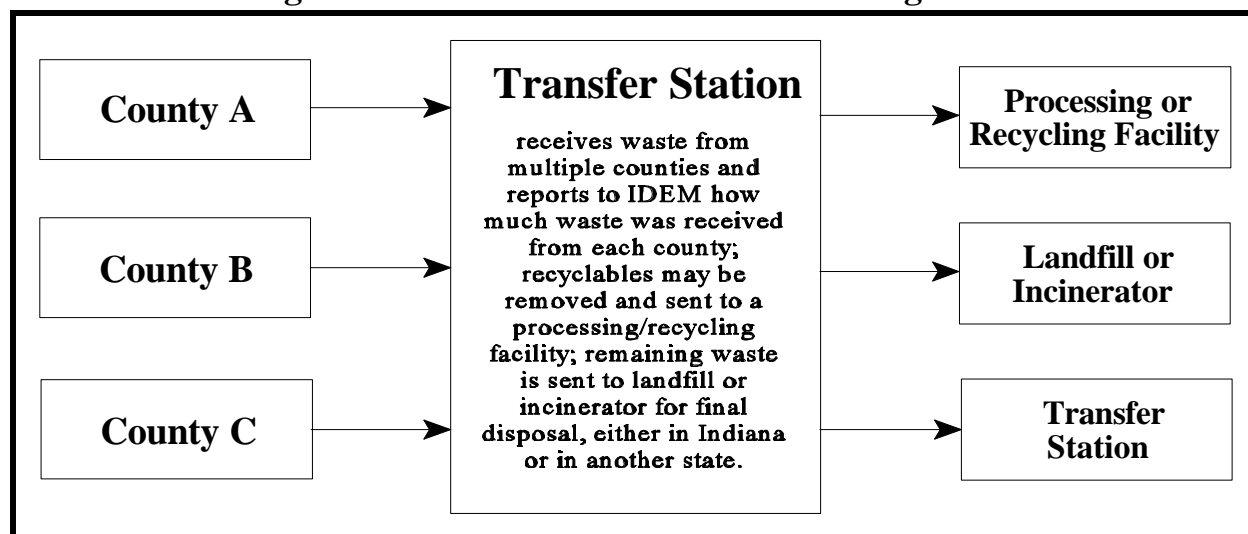


Table 15. Destination of Waste Sent from Transfer Stations for Final Disposal

Year	Total Tons Sent To All Facilities	To Indiana Facilities		To Out-of-State Facilities	
		Tonnage	% of Total	Tonnage	% of Total
1991	821,417	770,609	94%	50,808	6%
1992	987,797	971,031	98%	16,766	2%
1993	1,161,036	1,107,576	95%	53,460	5%
1994	1,347,550	1,200,340	89%	147,210	11%
1995	1,547,478	1,372,298	89%	175,180	11%
1996	1,683,462	1,512,391	90%	171,071	10%

loads in a central location, removes various recyclables, then transports the waste to two or more landfills, another transfer station and/or a recycling facility. Figure 13 illustrates how the tonnage received from the counties may be known, but the waste sent for final disposal or processing may not directly identify the point of origin.

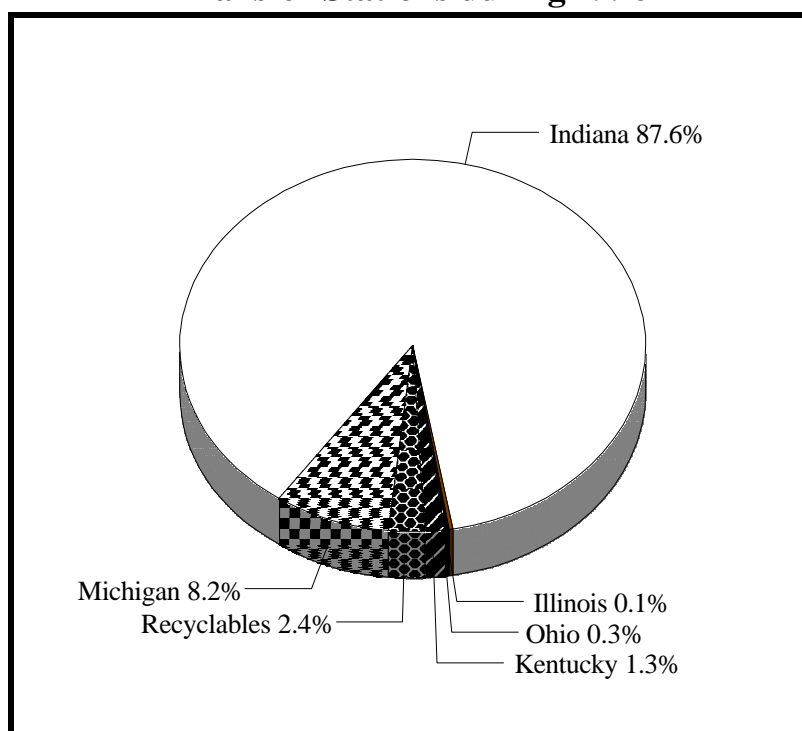
Quarterly reports from transfer stations currently provide the only source of systematic information on the amount of waste exported by Indiana. Table 15 shows the amount of waste sent out-of-state from transfer stations as compared to the amount of waste sent to Indiana final disposal facilities during 1991 to 1996. Figure 14 shows a more detailed breakdown of the destination information for 1996. This information does not provide a complete picture of Indiana waste exports, because the totals in Table 15 are based only on information obtained from processing facility quarterly reports. The amount of waste hauled directly from an Indiana residence or business to an out-of-state destination is not adequately known due to reporting limitations.

More detailed data for transfer stations is given at the end of this report in "1996 Solid Waste Facility Profiles." These profiles, however, do not include destination information. Table 1 on page 2 provides an IDEM contact if you wish to obtain this information.

Other Processing Facilities

Other processing facilities currently permitted by IDEM include paper, tire, and medical waste processing facilities. Information regarding these facilities is included in "1996 Solid Waste Facility Profiles." Recycling and collection container facilities do not need permits from IDEM and therefore are not included in this report.

Figure 14. Destination of Waste Sent from Transfer Stations during 1996



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OUT-OF-STATE WASTE

Solid waste imported to Indiana from out-of-state sources can be received at landfills, incinerators, or transfer stations. The following discussion focuses on data for all facilities which have received out-of-state waste, with the exception of paper, tire, and medical processing facilities. These three types of processing facilities have received only small amounts of out-of-state waste, and therefore are not included in the following discussion. Tonnage data for each of these facilities can be found at the end of this report in “1996 Solid Waste Facility Profiles.”

Since 1992, the predominant states of origin for solid waste imports have been the four contiguous states (Illinois, Michigan, Ohio, and Kentucky). As Figure 15 shows, the portion of out-of-state waste originating from East Coast and other non-contiguous states has decreased dramatically since 1991, and by 1995 accounted for less than 1 percent of Indiana’s total imports. Figure 15 also shows that despite a significant drop in the amount of out-of-state waste received by Indiana facilities from 1992 to 1994, waste imports increased significantly in 1995 and doubled in 1996 (almost 2 million tons) to their highest level in the last six years. In fact, in 1996, out-of-state waste accounted for 15 percent of the waste disposed at Indiana’s solid waste landfills and 21 percent of the waste disposed in MSW landfills.

Table 16 details the state origin and amount of out-of-state waste received at Indiana solid waste facilities during 1996. Figure 16 shows this information from 1991 through 1996. Illinois has been historically the largest source of waste imports to Indiana. In 1996, Illinois waste accounted for more than 87 percent of the

Figure 15. Annual Waste Imports by Region of Origin

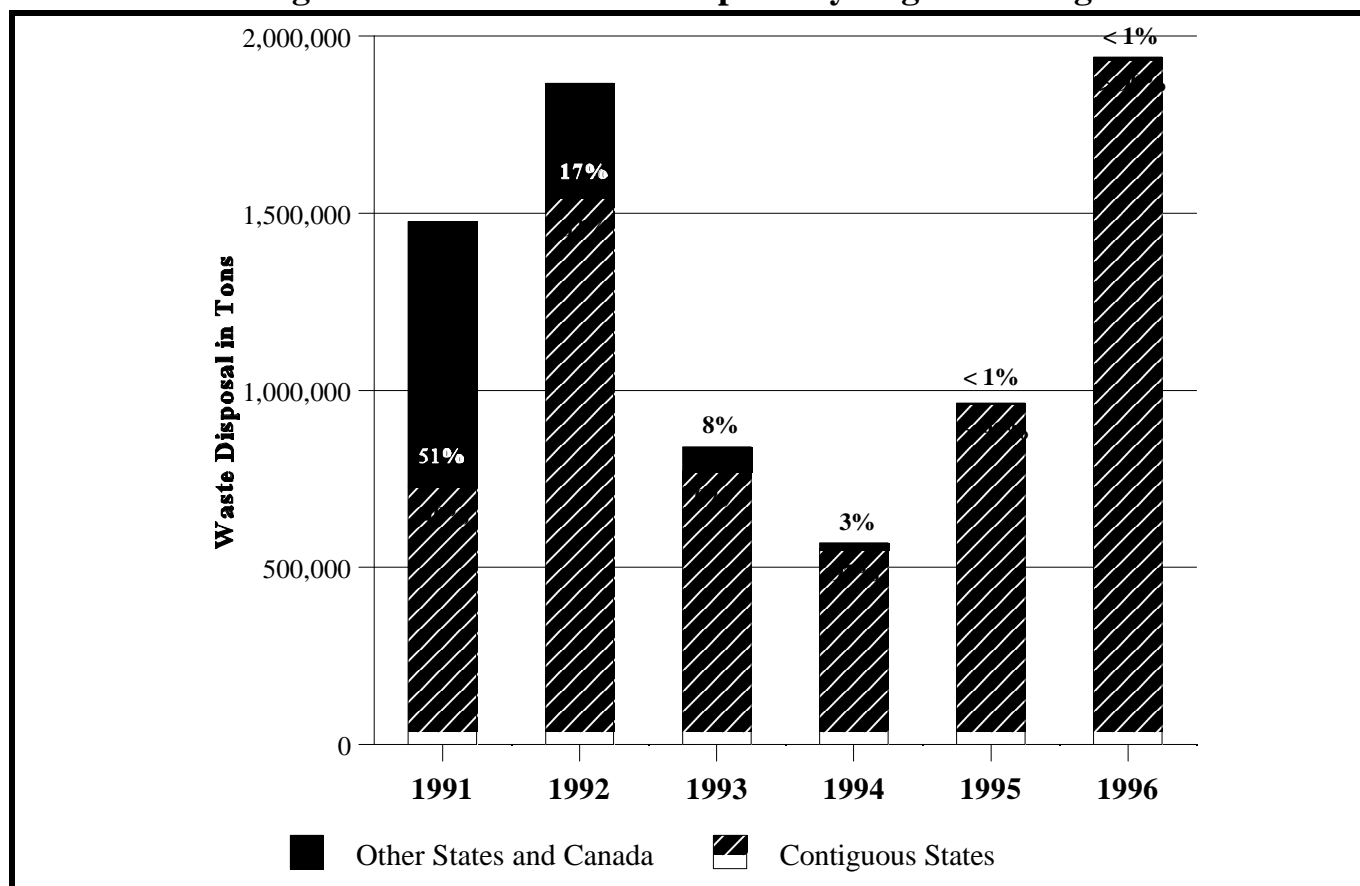


Table 16. Out-of-State Waste Received during 1996

■State County Name	Tons Received	<i>Total: 1,942,068 tons</i>	
■Illinois	1,690,228	Hardin	518
Champaign	120	Harrison	5
Clark	985	Henderson	51,820
Clay	46	Jefferson	12,454
Cook	1,647,364	Marshall	1
Crawford	18,301	McCracken	4,562
Du Page	465	Meade	82
Edgar	13,790	Ohio	10,946
Effingham	234	Union	169
Jasper	47	Webster	8
Jefferson	15	■Ohio	103,989
Kane	21	Allen	1,746
Lawrence	305	Auglaize	16
Madison	18	Butler	32,608
Piatt	78	Clermont	2
Richland	502	Cuyahoga	19
Tazewell	136	Darke	36,376
Vermilion	111	Defiance	90
Wabash	7,690	Greene	382
■Kentucky	127,058	Hamilton	391
Barren	2,159	Henry	4
Breckinridge	5	Lucas	188
Butler	12	Mercer	5,906
Carroll	11	Montgomery	43
Daviess	44,186	Paulding	419
Fayette	120	Ross	1
		Shelby	218
		Van Wert	25,511
		Williams	68
		UNKNOWN	1
		■Michigan	15,236
		Berrien	2,348
		Branch	7,358
		Cass	2,584
		Kent	109
		Lenawee	256
		St. Joseph	2,581
		■New York	4,759
		Kings	4,759
		■Georgia	377
		Troup	377
		■Wisconsin	220
		Milwaukee	220
		■Missouri	130
		Jackson	38
		St. Louis	92
		■New Jersey	55
		Morris	55
		■Nevada	16
		Storey	16

out-of-state received by Indiana solid waste facilities. Nearly all of that waste came from the Chicago area.

Table 17 displays the amount of out-of-state waste received by Indiana's permitted solid waste facilities by each reported waste type during 1996. Table 18 displays similar information from 1991 through 1996 for municipal and nonmunicipal waste. MSW landfills have consistently received most of the waste imported from other states. Figure 17 shows that municipal solid waste has historically accounted for the largest percentage of waste imports. However, nonmunicipal waste imports have risen considerably since 1994.

Figure 18 shows the distribution of the disposal of out-of-state waste among Indiana land disposal facilities. As Figure 18 shows, a relatively few number of facilities disposed of the majority of imported waste. Of the twenty-three solid waste landfills which received out-of-state waste during 1996, four landfills disposed of three-fourths of the imported waste. In addition, almost all of the imported waste received by these four facilities was from Illinois.

Figure 16. Annual Waste Imports by State of Origin

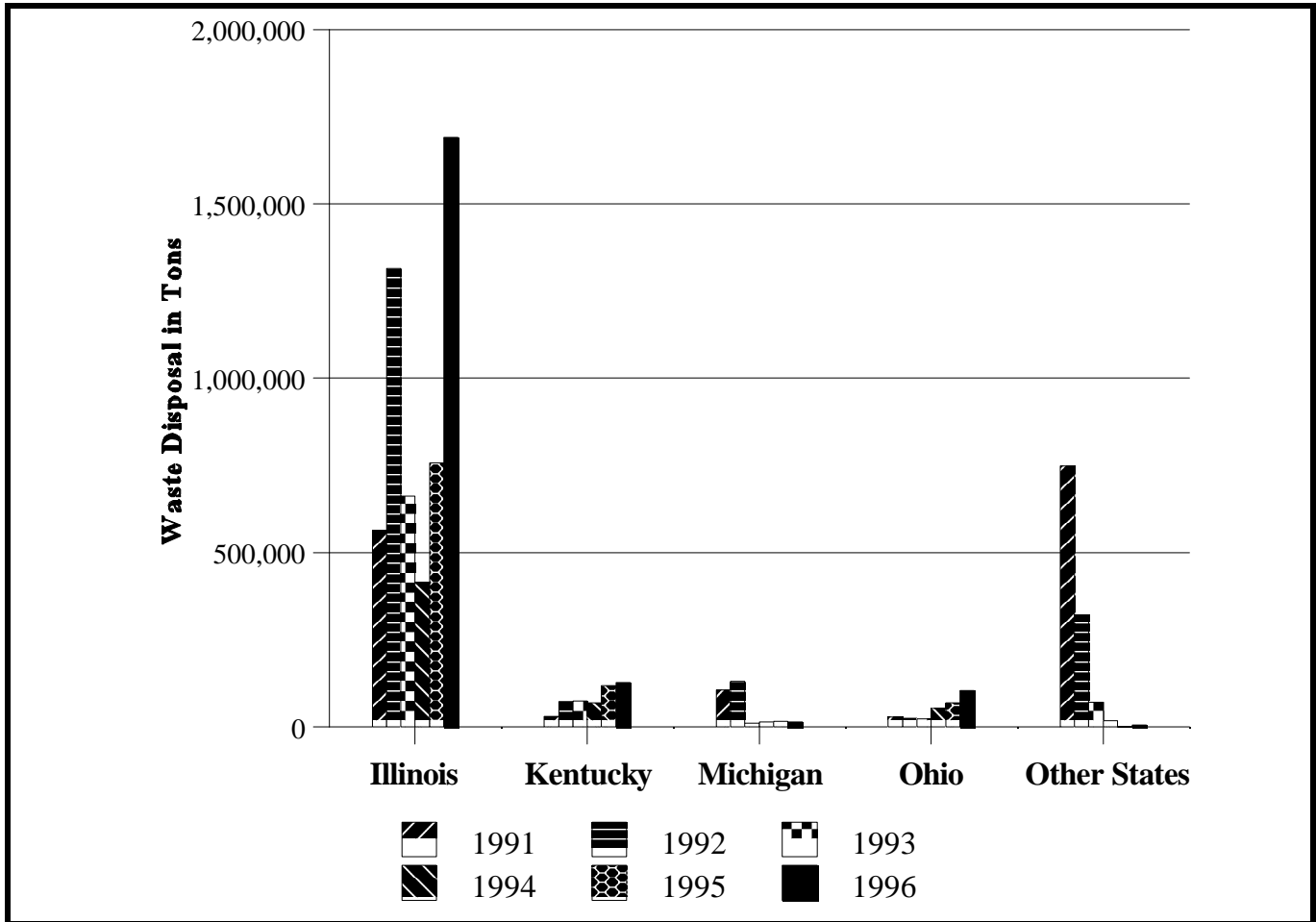


Table 17. Amount of Out-of-State Waste Received by Solid Waste Facilities by Facility Type and Waste Type during 1996

Waste Type	Tons of Waste Disposed				
	Municipal Solid Waste Landfills	Construction/Demolition Landfills	Incinerators (nonhospital)	Transfer Stations	All Facilities
Municipal	1,521,449	0	7,777	22,604	1,551,830
C/D	114,274	77,398	0	604	192,276
Foundry	0	0	0	0	0
Other Special	196,195	0	599	0	196,794
Coal Ash	6	0	0	0	6
FGD Waste	0	0	0	0	0
Other NonMSW	1,162	0	0	0	1,162
TOTAL	1,833,086	77,398	8,376	23,208	1,942,068

Table 19 summarizes the annual amount of out-of-state waste received by Indiana's solid waste facilities during 1996. Table 20 provides a detailed look at the amount of waste that these facilities received from each state.

Although Indiana imports a considerable amount of solid waste, it also exports waste, primarily to contiguous states. A brief discussion of waste exports was provided in the previous section on solid waste processing facilities.

"1996 Solid Waste Facility Profiles" at the end of this report provides more detailed summaries of waste imports to landfills, incinerators, and transfer stations.

Figure 17. Annual Amount of Out-of-State Waste Received by Solid Waste Facilities

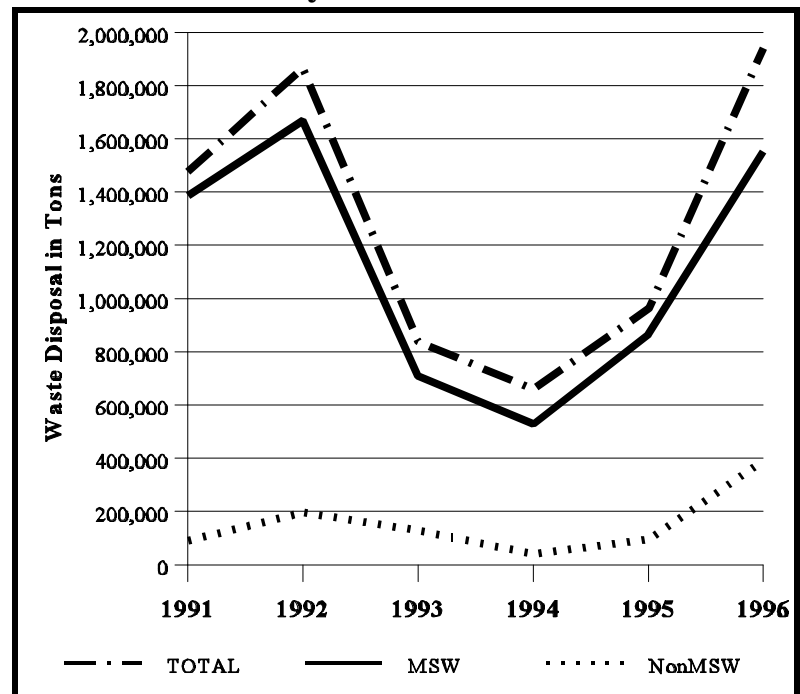


Table 18. Annual Amount of Out-of-State Waste Received by Solid Waste Facilities by Facility Type and Waste Type

Landfill Type	Waste Type	Tons of Waste Disposed					
		1991	1992	1993	1994	1995	1996
Municipal Solid Waste Landfills ⁽¹⁾	MSW	1,361,702	1,649,096	692,849	501,115	841,125	1,521,449
	NonMSW	90,576	194,883	128,751	35,033	82,334	311,637
	TOTAL	1,452,278	1,843,979	821,600	536,148	923,459	1,833,086
Construction/Demolition Landfills	MSW	0	0	0	0	0	0
	NonMSW	0	0	0	3,297	6,775	77,398
	TOTAL	0	0	0	3,297	6,775	77,398
Incinerators (nonhospital)	MSW	412	2,488	1,119	2,409	2,560	7,777
	NonMSW	483	270	0	0	171	599
	TOTAL	895	2,758	1,119	2,409	2,731	8,376
Transfer Stations ⁽²⁾	MSW	24,383	19,454	18,118	26,898	24,202	22,604
	NonMSW	65	27	367	640	6,621	604
	TOTAL	24,448	19,481	18,485	27,538	30,823	23,208
All Facilities	MSW	1,386,497	1,671,038	712,086	530,422	867,887	1,551,830
	NonMSW	91,124	195,180	129,118	38,970	95,901	390,238
	TOTAL	1,477,621	1,866,218	841,204	569,392	963,788	1,942,068

- (1) This reflects only the tonnages of out-of-state waste that were shipped directly to MSW landfills. Most of the out-of-state waste received by transfer stations was sent to Indiana MSW landfills for final disposal. However, these MSW landfills reported the origin of this out-of-state waste as the county in which the transfer station was located, rather than the state in which the waste originated, in accordance with IDEM guidance.

- (2) The majority of this waste was sent to Indiana final disposal facilities.

Figure 18. Distribution of Disposal of Out-of-State Waste Received at Indiana Land Disposal Facilities

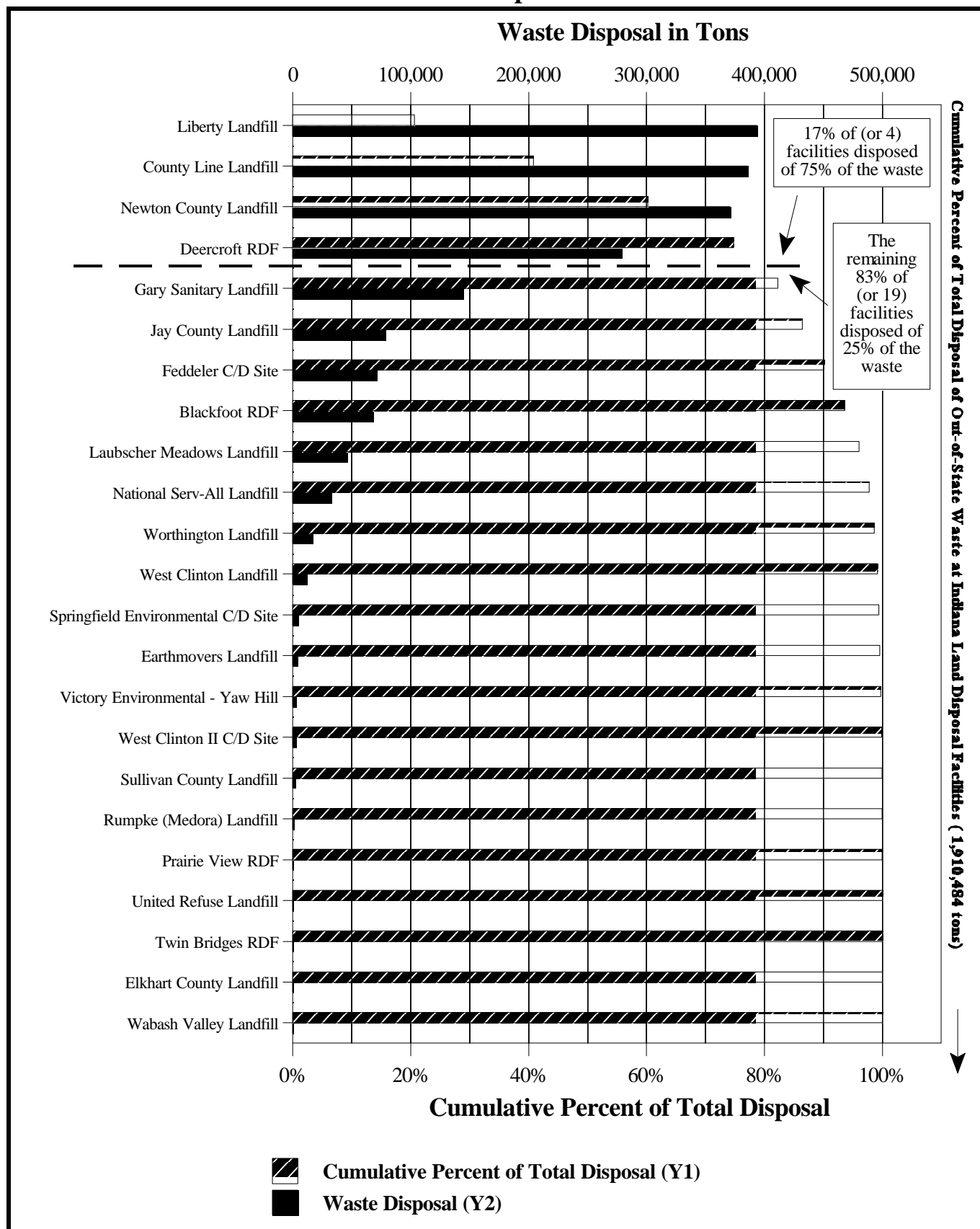


Table 19. Total Out-of-State Waste Received by Facility during 1996

County Location of Facility	Facility Name	Type of Facility	Tons of Out-of-State Waste Received
Allen	National Serv-All Landfill	MSW Landfill	32,308
Allen	United Refuse Landfill	MSW Landfill	241
Clark	Bi-Co Transfer Station	Transfer Station	12,049
De Kalb	Merritt Processing Facility	Transfer Station	90
Dubois	Huntingburg Transfer Station	Transfer Station	46
Elkhart	Earthmovers Landfill	MSW Landfill	3,156
Elkhart	Elkhart County Landfill	MSW Landfill	17
Fulton	County Line Landfill	MSW Landfill	385,550
Greene	Worthington Landfill	MSW Landfill	16,175
Harrison	Gray Disposal Service Transfer Station	Transfer Station	92
Hendricks	Twin Bridges RDF	MSW Landfill	198
Jackson	Rumpke (Medora) Landfill	MSW Landfill	590
Jay	Jay County Landfill	MSW Landfill	78,008
Knox	Big T Disposal Transfer Station	Transfer Station	173
Lagrange	Scott Recycling Facility	Transfer Station	2,101
La Porte	Deercroft RDF	MSW Landfill	278,669
Lake	Feddeler C/D Site	Construction / Demolition Site	70,519
Lake	Gary Sanitary Landfill	MSW Landfill	144,271
Lake	Illiana Resource Recovery and Transfer	Transfer Station	1,925
Lake	Service Waste Recycle/Transfer Station	Transfer Station	3,295
Marion	Indianapolis Resource Recovery Facility	Incinerator	8,376
Newton	Newton County Landfill	MSW Landfill	370,701
Noble	Kendallville Iron & Metal, Inc.	Transfer Station	13
Pike	Blackfoot RDF	MSW Landfill	68,108
Porter	Able Disposal Recycling and Transfer Station	Transfer Station	2,449
Posey	Springfield Environmental C/D Site	Construction / Demolition Site	4,550
St. Joseph	Prairie View RDF	MSW Landfill	278
Sullivan	Sullivan County Landfill	MSW Landfill	1,758
Vanderburgh	Laubscher Meadows Landfill	MSW Landfill	45,708
Vanderburgh	Materials Recycling and Transfer Station	Transfer Station	975
Vermillion	West Clinton II C/D Site	Construction / Demolition Site	2,329
Vermillion	West Clinton Landfill	MSW Landfill	11,393
Vigo	Victory Environmental - Yaw Hill	MSW Landfill	2,548
Wabash	Wabash Valley Landfill	MSW Landfill	1
White	Liberty Landfill	MSW Landfill	393,408
Total for All Facilities:			1,942,068

Figure 19. Origin of Waste Disposed and Incinerated in Indiana during 1996

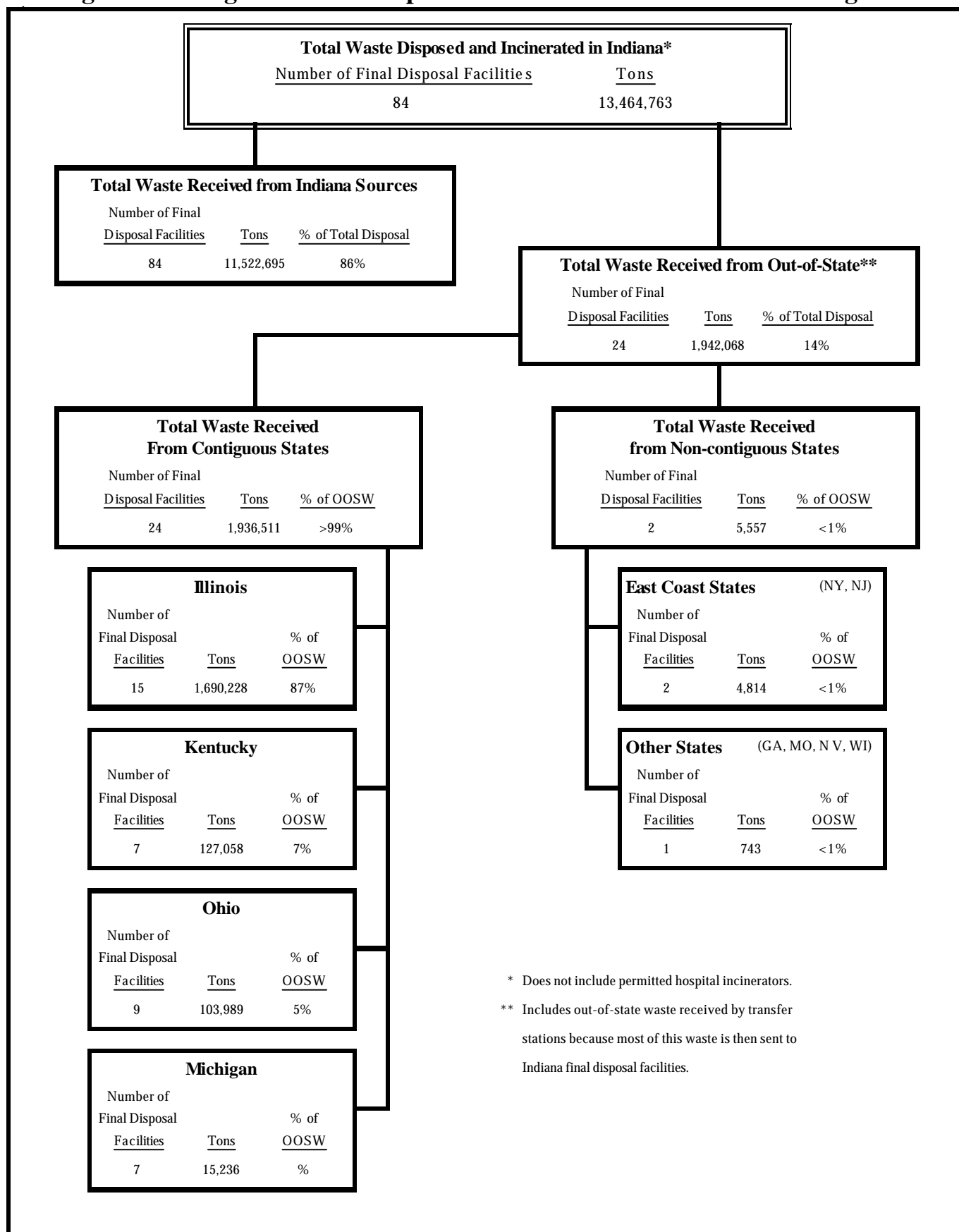


Table 20. Out-of-State Waste Received by Indiana Solid Waste Facilities during 1996

County Name	Facility Name	Facility Type	Contiguous States				Other States						Total Tons	
			IL	KY	MI	OH	GA	MO	NJ	NV	NY	WI		
Allen	National Serv.-All Landfill	MSW Landfill			7,490	24,818							32,308	1.66%
Allen	United Refuse Landfill	MSW Landfill			5	236							241	0.01%
Clark	Bi-Co Transfer Station	Transfer Station		12,049									12,049	0.62%
De Kalb	Merritt Processing Facility	Transfer Station			54	36							90	0.00%
Dubois	Huntingburg Transfer Station	Transfer Station	46										46	0.00%
Elkhart	Earthmovers Landfill	MSW Landfill			3,156								3,156	0.16%
Elkhart	Elkhart County Landfill	MSW Landfill			17								17	0.00%
Fulton	County Line Landfill	MSW Landfill	383,391	2,159									385,550	19.85%
Greene	Worthington Landfill	MSW Landfill	16,130			45							16,175	0.83%
Harrison	Gray Disposal Service Transfer Station	Transfer Station		92									92	0.00%
Hendricks	Twin Bridges RDF	MSW Landfill	198										198	0.01%
Jackson	Rumpke (Medora) Landfill	MSW Landfill		405		185							590	0.03%
Jay	Jay County Landfill	MSW Landfill				78,008							78,008	4.02%
Knox	Big T Disposal Transfer Station	Transfer Station	173										173	0.01%
La Porte	Deercroft RDF	MSW Landfill	278,594		75								278,669	14.35%
Lagrange	Scott Recycling Facility	Transfer Station			2,101								2,101	0.11%
Lake	Feddeler C/D Site	Construction / Demolition Site	70,519										70,519	17.93%
Lake	Gary Sanitary Landfill	MSW Landfill	144,271										144,271	7.43%
Lake	Illiana Resource Recovery and Transfer	Transfer Station	1,925										1,925	0.10%
Lake	Service Waste Recycle/Transfer Station	Transfer Station	3,295										3,295	0.17%
Marion	Indianapolis Resource Recovery Facility	Incinerator	6,091	661	256	570	377	130	55	16		220	8,376	0.43%
Newton	Newton County Landfill	MSW Landfill	370,701										370,701	19.09%
Noble	Kendallville Iron & Metal, Inc.	Transfer Station			13								13	0.00%
Pike	Blackfoot RDF	MSW Landfill	7,606	60,502									68,108	3.51%
Porter	Able Disposal Recycling and Transfer Station	Transfer Station	489		1,960								2,449	0.13%
Posey	Springfield Environmental C/D Site	Construction / Demolition Site		4,550									4,550	0.23%
St. Joseph	Prairie View RDF	MSW Landfill	136		109	33							278	0.01%
Sullivan	Sullivan County Landfill	MSW Landfill	1,758										1,758	0.09%
Vanderburgh	Laubscher Meadows Landfill	MSW Landfill		45,708									45,708	2.35%
Vanderburgh	Materials Recycling and Transfer Station	Transfer Station	56	919									975	0.05%
Vermillion	West Clinton II C/D Site	Construction / Demolition Site	2,329										2,329	0.12%
Vermillion	West Clinton Landfill	MSW Landfill	11,393										11,393	0.59%
Vigo	Victory Environmental - Yaw Hill	MSW Landfill	2,535	13									2,548	0.13%
Wabash	Wabash Valley Landfill	MSW Landfill				1							1	0.00%
White	Liberty Landfill	MSW Landfill	388,592			57					4,759		393,408	20.26%
Total for All Facilities			1,690,228	127,058	15,236	103,989	377	130	55	16	4,759	220	1,942,068	
			87.03%	6.54%	0.78%	5.35%	0.02%	0.01%	0.00%	0.00%	0.25%	0.01%		